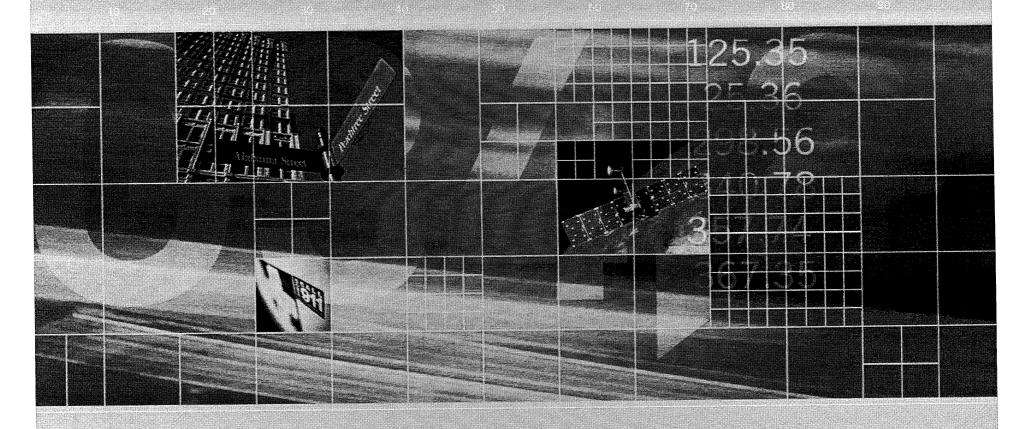
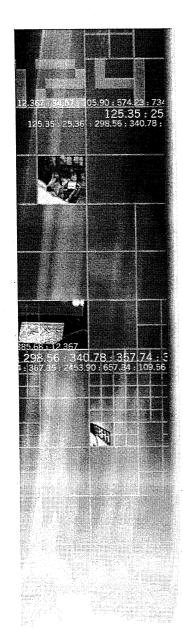
# VoIP Update to FCC - March 29, 2005

Stephen Meer – CTO & Cofounder, Intrado Inc.



intrado°

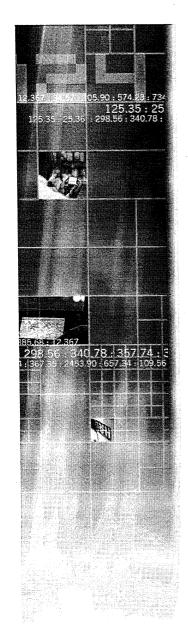


#### **VoIP E9-1-1**

- Intrado History With 9-1-1
- → Challenges for VoIP E9-1-1
- **Solutions for VoIP E9-1-1 Solutions for VoIP E9-1-1** 
  - VoIP Solution Architecture
- Solutions for VoIP E9-1-1: Deployment Status

ınt'rado°

→ Policy Requirements



# **Intrado History With 9-1-1**

- Systems and data mgt to deliver 9-1-1
- **Support the core of 9-1-1** 
  - Verizon, SBC, BellSouth, Qwest with 206 million telephone records
  - 37 competitive carriers with 9.8 million records
  - 50 wireless carriers with 91 million records
  - All major VoIP providers
- Unparalleled knowledge of public safety technology
  - Understand who, what, how and why

**intrado**°



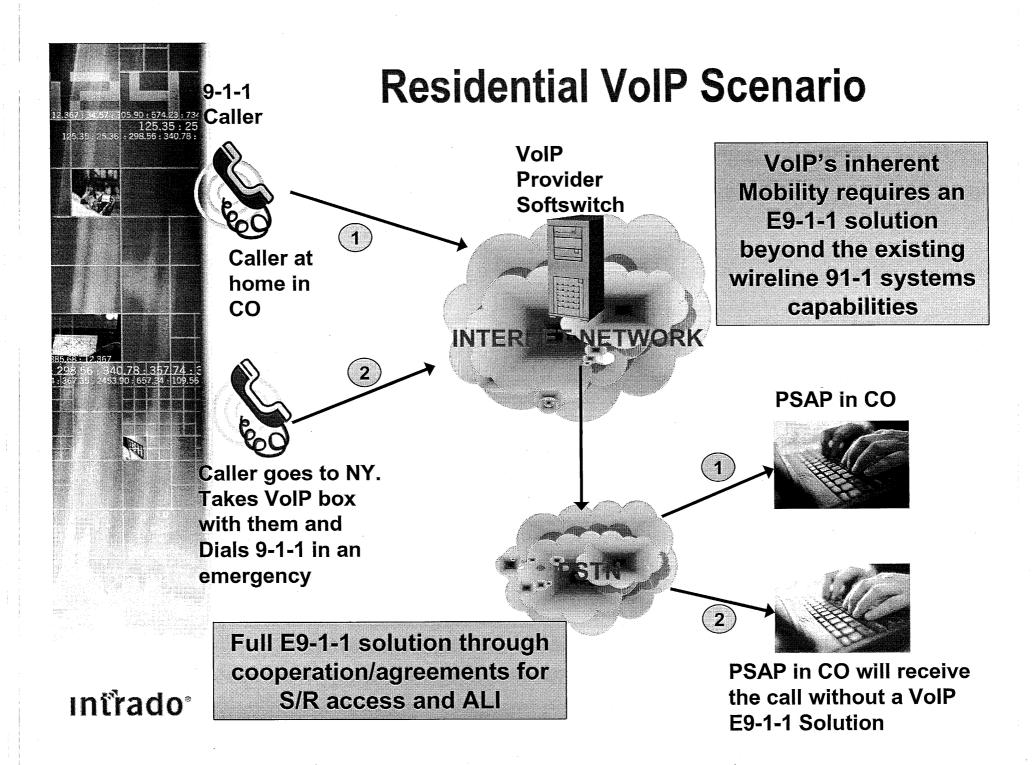
# **Challenges for VolP E9-1-1**

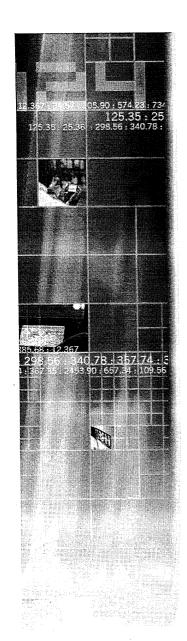
- Must solve "The Big Four" for Consumer and Business Enterprise VoIP services
  - Where is the caller?
  - Which PSAP should receive the call?
  - How to get the call to the PSAP?
  - What information to deliver with the call?



## **VoIP 9-1-1 Requires a Different Approach**

- Technology exists to enable full E9-1-1 for VoIP subscribers regardless of movement and TN assignment
- Intrado has launched the V9-1-1 service and is currently working with partners and the industry to enable access to critical network elements required to deliver E9-1-1 for VoIP
- √ VoIP users deserve and expect access to E91-1 services equal to that of traditional
  wireline services



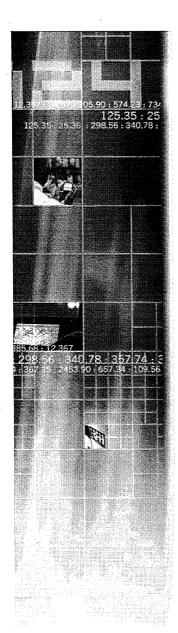


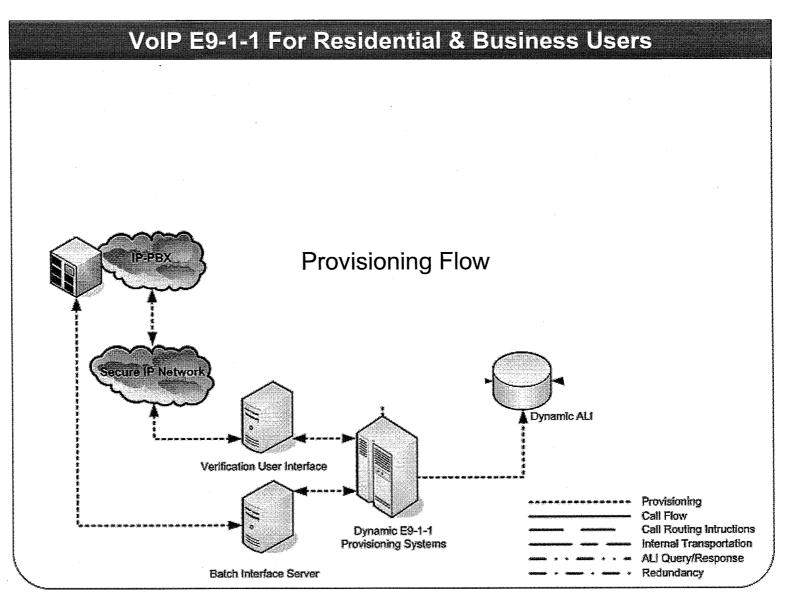
#### **Solutions for VolP E9-1-1**

Solutions depend on market offer

If static user with local telephone number,
 existing 9-1-1 infrastructure can be used

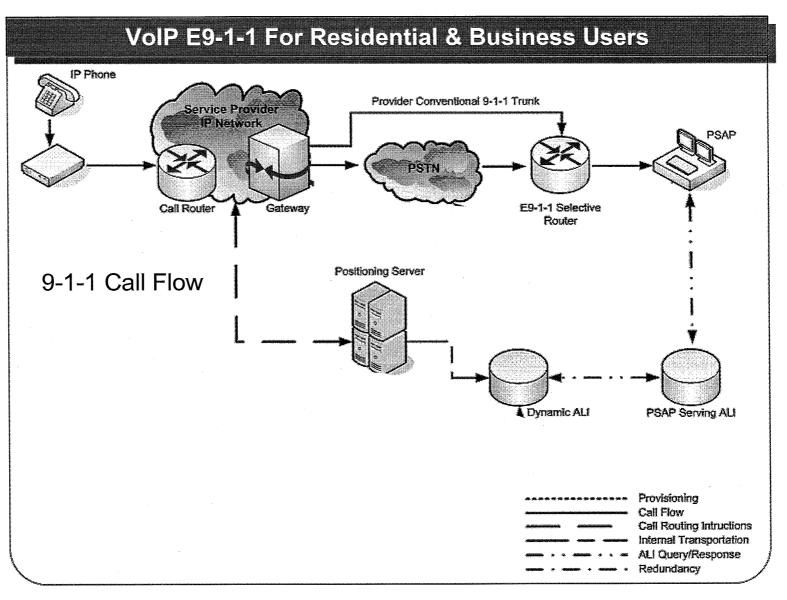
 If mobile user or non-native telephone number assignment, need a dynamic VoIP solution





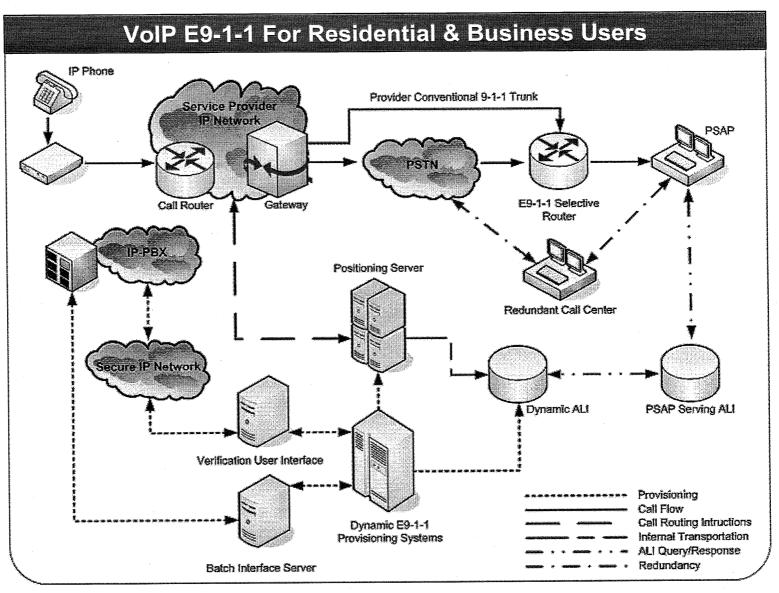
ıntirado°





ıntirado°

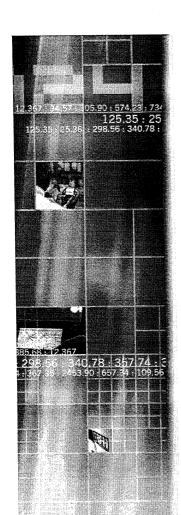






#### **Solutions for VolP E9-1-1**

- Implementation of dynamic VoIP solution requires
  - Access to 9-1-1 Selective Routers for "native" call delivery to PSAP
  - Steering of ALI (automated location information) request to VoIP Dynamic ALI for customer address information

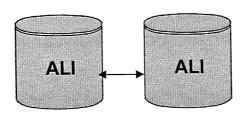


# Cooperation Enables Full Functionality of VoIP 9-1-1 Products



**SELECTIVE ROUTER** 

Access to the Selective Router is required to enable native routing through the 9-1-1 Network



Access to regional ALI's required to enable full address presentation at the PSAP



## Solutions for VoIP E9-1-1: Deployment Status

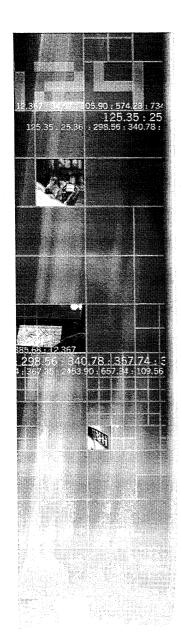
## √ V9-1-1 Mobility Service

- Addresses Consumer and Enterprise markets
- 7 customers

## → States and Municipalities

- Increasingly involved in solution implementation
- Deployed VoIP native 9-1-1 delivery for Rhode Island
- Actively working with Virginia, New York City, and Seattle on native VoIP solutions

intrado



# **Policy Requirements**

#### → 911 Network Access

- Access to the Selective Routers and ALI Steering for VoIP Service Providers; despite recent ILEC movement.
- Ensure third party concentrators of VoIP traffic are included.

#### → State 911 Programs

- Require VoIP providers to comply with 911 policy and service level mandates of each State.
- Define the term IP Enabled Service Provider exclusively for the purposes of 911 only.
- Ensure that providers are treated essentially the same within the States as traditional telecommunications carriers.

#### → Liability

 Provide for same liability protection afforded wireless carriers pursuant to 47 U.S.C. §615a.

#### Standards

 Defer to existing standards organizations for technical recommendations and solutions.



**Questions/Discussion**